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III. The Hamilton-Jacobi Equation for the Kepler Problem
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 Hamilton-Jacobi Perturbation Theory; Bibliography; Chapter 8 The Vinti Spheroidal Method for Satellite Orbits and Ballistic Trajectories; I. Introduction; II. The Coordinates and the Hamiltonian; III. The Hamilton-Jacobi Equation; IV. Laplace's Equation; V. Expansion of Potential in Spherical Harmonics; VI. Return to the HJ Equation; VII. The Kinematic Equations; VIII. Orbital Elements
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 References; Chapter 13 Gaussian Variational Equations for the Keplerian Elements; I. Preliminaries; II. Equations for J_1 and a ; III. Equations for J_2 and e ; IV. Equations for J_3 and I ; V. Equations for $J_3 = 0$; VI. Equations for $J_2 = 0$; VII. Equations for J_1 and I ; VIII. Summary; Chapter 14 Potential Theory; I. Introduction; II. Laplace's Equation; III. The Eigenvalue Problem; IV. The $R(r)$ Equation; V. The Assembled Solution; VI. Legendre Polynomials; VII. The Results for $P_n(x)$
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